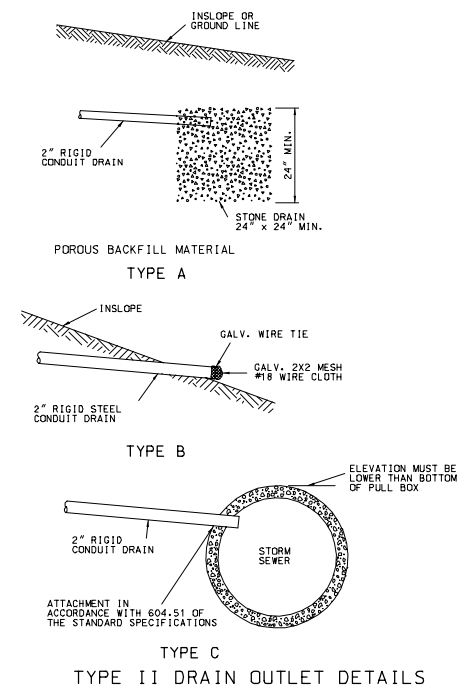


DOUBLE CONCRETE PULL BOX, TYPE A

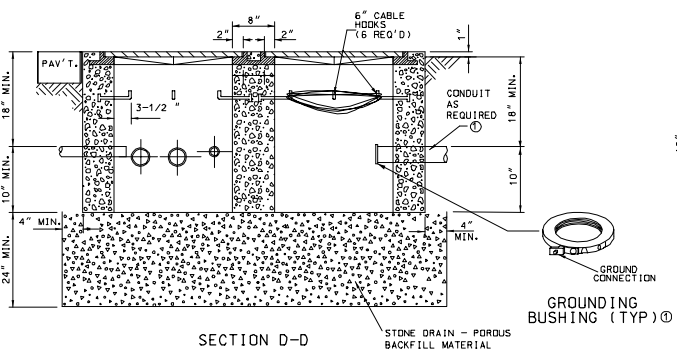
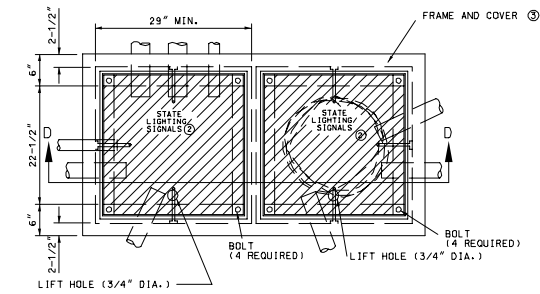


- ALL METAL CONDUITS SHALL BE ELECTRICALLY BONDED BY A GROUND BUSHING AND #6 AWG BARE COPPER WIRE. FOR PVC CONDUIT, ALL GROUND WIRES SHALL BE CONNECTED.
- SIGNAL PULL BOXES SHALL BE EMBOSSED "STATE SIGNALS" AND LIGHTING PULL BOXES "STATE LIGHTING."
- PULL BOX FRAMES AND COVERS SHALL BE CAST IRON AND THE FOLLOWING MINIMUM DIMENSIONS:

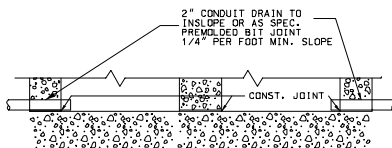
FRAME SIZE:	29" x 29"
FRAME HEIGHT:	4-1/4"
OPENING SIZE:	22-1/2" x 22-1/2"
FRAME WEIGHT:	120 LBS.
COVER SIZE:	22-5/8" x 22-5/8"
COVER THICKNESS:	3/4"
COVER WEIGHT:	140 LBS.

GENERAL NOTES:
ALL DIMENSIONS SHOWN ARE NOMINAL.
BOLT CLEANOUT DETAIL SHALL BE APPROVED BY ENGINEER.
ALL CONCRETE SHALL BE 3,000 PSI MINIMUM.
PAVEMENT AND SUBGRADE SHALL BE AS SHOWN ON PLANS.
STONE DRAIN MATERIAL SHALL CONFORM TO SECTION 1009 OF THE STANDARD SPECIFICATIONS.
LIFT OPENING REQUIRED ON ALL COVERS.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
TRAFFIC SIGNALS CONCRETE PULL BOXES			
DATE: _____	EFFECTIVE: 04-01-2002	902.20B	1/3

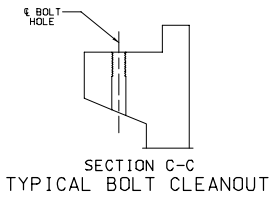


SECTION D-D
TYPE I DRAIN TYPE

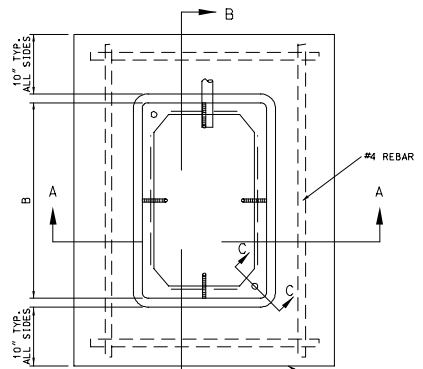


TYPE II DRAIN TYPE
(SEE DRAIN OUTLET DETAILS)

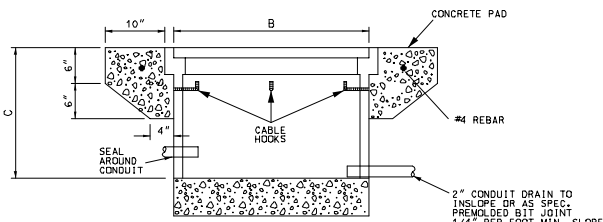
DOUBLE CONCRETE PULL BOX, TYPE B



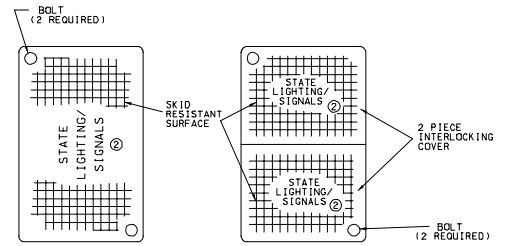
SECTION C-C
TYPICAL BOLT CLEANOUT



SECTION A-A
TYPE I DRAIN TYPE



SECTION B-B
TYPE II DRAIN TYPE
(SEE DRAIN OUTLET DETAILS)
(SECTION ABOVE BREAK APPLICABLE TO TYPE I DRAIN.)
PREFORMED PULL BOX



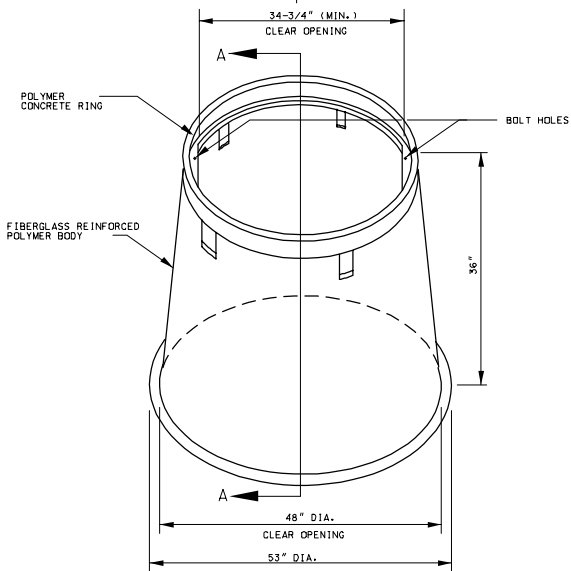
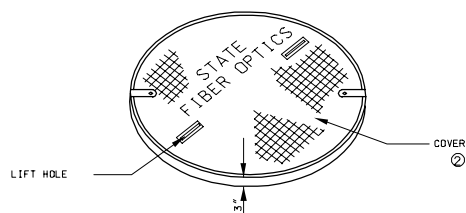
CLASS 1 OR 2 CLASS 3
PREFORMED PULL BOX COVER

NUMBER OF ENTERING CONDUCTORS	CLASS	PREFORMED PULL BOX MINIMUM DIMENSIONS		
		A	B	C
< 23	1	17"	30"	22"
23 - 68	2	24"	36"	26"
> 68	3	30"	48"	36"

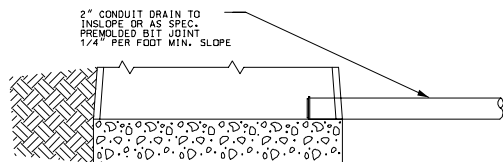
- ALL METAL CONDUITS SHALL BE ELECTRICALLY BONDED BY A GROUND BUSHING AND #10 AWG BARE COPPER WIRE. FOR PVC CONDUIT, ALL GROUND WIRES SHALL BE CONNECTED.
 - SIGNAL PULL BOXES SHALL BE EMBOSSED "STATE SIGNALS" AND LIGHTING PULL BOXES "STATE LIGHTING".
 - PULL BOX FRAMES AND COVERS SHALL BE CAST IRON AND THE FOLLOWING MINIMUM DIMENSIONS:
- FRAME SIZE: 29" X 29"
 FRAME HEIGHT: 4-1/4"
 OPENING SIZE: 22-1/2" X 22-1/2"
 FRAME WEIGHT: 120 LBS.
 COVER SIZE: 22-5/8" X 22-5/8"
 COVER THICKNESS: 3/4"
 COVER WEIGHT: 140 LBS.

NOTES:
 PREFORMED BOX WALLS MAY BE EITHER FLARED OR VERTICAL.
 IF AN EXTENSION IS USED WITH A PREFORMED BOX, THE LIP OF THE EXTENSION MAY BE INTERIOR OR EXTERIOR. THE EXTENSION SHALL BE COMPATIBLE AND FROM THE SAME MANUFACTURER.
 IF PREFORMED PULL BOXES ARE SPECIFIED, THE CONTRACTOR MAY USE THE STANDARD CONCRETE PULL BOX IN LIEU OF THE CLASS 1 OR 2 PREFORMED PULL BOX OR THE DOUBLE CONCRETE PULL BOX, TYPE A, IN LIEU OF THE CLASS 3 PREFORMED PULL BOXES.

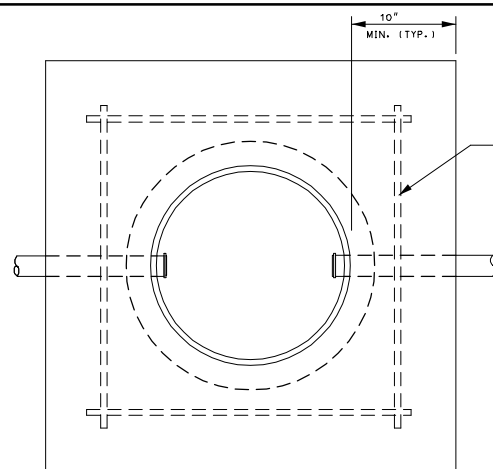
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
TRAFFIC SIGNALS CONCRETE AND PREFORMED PULL BOXES			
DATE: _____	EFFECTIVE: 04-01-2002	902.20B	2/3



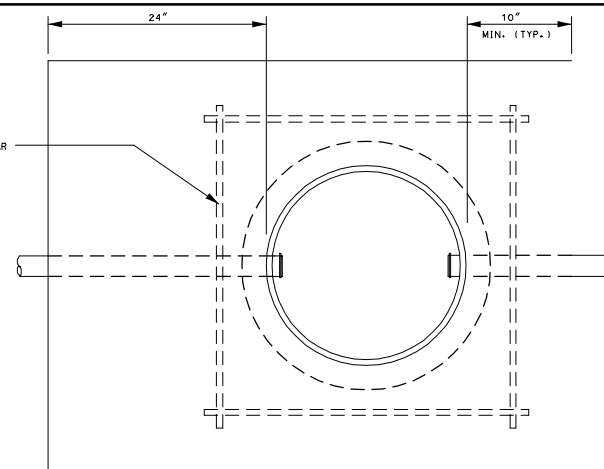
CIRCULAR PULL BOX
CLASS 5



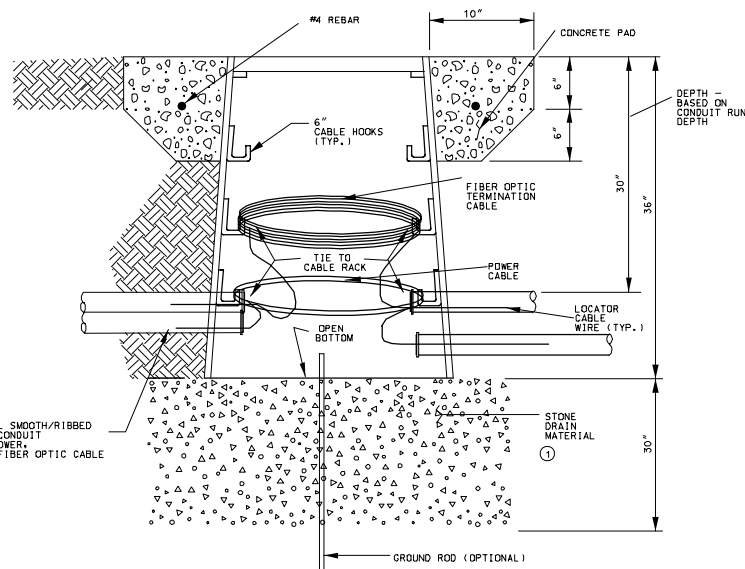
TYPE II DRAIN TYPE
(SEE DRAIN OUTLET DETAILS)
(SECTION ABOVE BREAK APPLICABLE TO TYPE I DRAIN.)



PLAN
PULL BOX GREATER THAN 2'-0" FROM SHOULDER



PLAN
PULL BOX ADJACENT TO SHOULDER



SECTION A-A
TYPE I DRAIN TYPE

- ① AGGREGATE SHALL CONFORM TO SEC 1007.1, TYPE 1, OF MDOT STANDARD SPECIFICATIONS.
- ② CIRCULAR PULL BOXES SHALL BE EMBOSSED "STATE FIBER OPTICS". TEXT SHALL BE 4" IN HEIGHT AND CENTERED.

GENERAL NOTES:

PULLBOX FRAMES AND COVERS SHALL BE POLYMER CONCRETE.

PULLBOX COVERS SHALL HAVE AN APPROVED WHEEL LOAD OF 20,000 LBS AND BE UV STABILIZED.

IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

THE CIRCULAR PULL BOX COVER SHOULD BE SIZED TO FIT A BOX WITH A MINIMUM CLEAR OPENING OF 34-3/4\"/>

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
TRAFFIC SIGNALS			
PULL BOXES, PREFORMED CLASS 5			
DATE: _____	EFFECTIVE: 04-01-2002	902.20B	3/3